

WHAT IS CLAIMED IS:

1 1. An optical medium disc for storing information readable by an optical
2 disc drive, the optical medium disc comprising:
3 a first layer having reflective properties, the first layer operable to store
4 information through manipulation of the reflective properties by a
5 laser;
6 a second layer disposed over the first layer;
7 a first set of embedded information stored at the first layer within a first range
8 of radii of the optical medium; and
9 a second set of embedded information stored at the second layer aligned to
10 substantially overlap the first set of information.

1 2. The optical medium disc of Claim 1 having data and protective layers,
2 wherein the first set of embedded information comprises plural repeated subsets
3 distributed around the entire circumference of the optical medium disc in a data layer,
4 and the second set of embedded information is distributed over the first set of
5 embedded information around a portion of the circumference of the optical medium
6 disc at the protective layer so that at least one complete subset of the first set of
7 embedded information remains uncovered by the second set of embedded
8 information.

1 3. The optical medium disc of Claim 2 wherein the first set of embedded
2 information comprises eight repeated subsets distributed around the entire
3 circumference of the optical medium disc and the second set of embedded information
4 is distributed over less than one third of the circumference of the optical medium disc.

1 4. The optical medium disc of Clam 2 wherein the second set of
2 embedded information comprises ink marking over the protective layer.

1 5. The optical medium disc of Claim 2 wherein the second set of
2 embedded information comprises laser cutting over the protective layer.

1 6. The optical medium disc of Claim 1 wherein the first set of embedded
2 information comprises a first encoding and the second set of embedded information
3 comprises a second encoding, the first and second sets of information operable to
4 provide a mixed signal to an optical disc drive.

1 7. The optical medium of Claim 6 wherein the mixed signal comprises
2 frequency modulation operable to distinguish between the first and second sets of
3 embedded information.

1 8. The optical medium of Claim 6 wherein the mixed signal comprises
2 phase encoding operable to distinguish between the first and second sets of embedded
3 information.

1 9. The optical medium of Claim 6 wherein the mixed signal comprises
2 bar coding operable to distinguish between the first and second sets of embedded
3 information.

1 10. The optical medium of Claim 1 wherein the first set of embedded
2 information has first width and the second set of information has a second width so
3 that first set of embedded information is readable under the second set of embedded
4 information.

1 11. A method for embedding information in an optical medium having
2 plural layers, the method comprising:
3 embedding a first set of information in a first layer at a predetermined radius
4 of the optical medium;
5 embedding a second set of information in a second layer at the predetermined
6 radius of the optical medium;
7 inserting the optical medium in an optical medium drive; and
8 initiating the optical drive to use the optical medium by bringing the optical
9 drive read head to the predetermined radius and reading the first and
10 second sets of information.

1 12. The method of Claim 11 wherein:
2 embedding the first set of information further comprises storing the first set of
3 information as plural repeated subsets around the circumference of the
4 optical medium at the predetermined radius; and
5 embedding the second set of information further comprises storing the second
6 set of information substantially aligned to cover the first set of
7 information over part of the circumference of the optical medium so
8 that at least one of the repeated subsets of the first set of information
9 remains uncovered.

1 13. The method of Claim 12 wherein the first set of information comprises
2 eight plural repeated subsets and the second set of information covers one third or less
3 of the first set of information.

1 14. The method of Claim 11 wherein embedding the first set of
2 information further comprises stamping the first set of information into a data layer.

1 15. The method of Claim 14 wherein embedding the second set of
2 information further comprises ink marking the second set of information onto the
3 protective outer surface of the optical medium as one or plural subsets.

1 16. The method of Claim 11 wherein the first and second set of
2 information are modulation coded to output a mixed signal.

1 17. An information handling system comprising:
2 components operable to generate information for storage on an optical
3 medium;
4 an optical drive interfaced with the components and operable to accept the
5 information for storage on the optical medium;
6 a pick-up head associated with the optical drive and operable to read reflected
7 laser light from the optical medium; and

8 an optical media identification module interfaced with the pickup head and
9 operable to determine identification information read from first and
10 second aligned embedded information areas, the first embedded
11 information area in a first layer of the optical medium, the second
12 embedded information area in a second layer of the optical medium.

1 18. The information handling system of Claim 17 wherein the first
2 embedded information area comprises a data layer between first and second radii and
3 the second embedded information area comprises a protective layer between the first
4 and second radii.

1 19. The information handling system of Claim 18 wherein the first and
2 second aligned embedded information areas output a frequency modulated mixed
3 signal that the optical media identification module demodulates to read first and
4 second embedded identification information sets.

1 20. The information handling system of Claim 18 wherein the first and
2 second aligned embedded information areas output a phase encoded mixed signal that
3 the optical media identification module demodulates to read first and second
4 embedded identification information sets.